Clinica Chimica Acta, Vol. 173

Author index

Accominotti, M., Pegon, Y. and Vallon, J.-J.

Determination of zinc in blood serum by electrothermal atomic absorption spectrometry with matrix modification (173) 99

Adolph, K., Kucey, M.T., Hodges, S.D., Carter, R.J. and Snyder, F.F. Interleukin-2-dependent T lymphocytes for the diagnosis and investigation of inherited metabolic disorders (173) 147

Ameryckx, J., see Dictus-Vermeulen, C. (173) 173

Arai, Y., see Koyama, I. (139) 139 Aroor, A.R., see Nayak, S.S. (173) 157

Beemer, F.A., see Van der Heiden, C. (173) 81 Bonvicini, P., see Burlina, A. (173) 35

Brink, W., see Van der Heiden, C. (173) 81 Burchell, A., Hume, R. and Burchell, B.

A new microtechnique for the analysis of the human hepatic microsomal glucose-6-phosphatase system (173) 183

Burchell, B., see Burchell, A. (173) 183 Burlina, A., Bonvicini, P., Plebani, M. and

Zaninotto, M. Influence of isoenzyme patterns on commutability in enzyme determinations (173) 35

Carter, R.J., see Adolph, K. (173) 147 Ch'ng, S.L. and Marinah, T.A. In vitro glycation of dried serum (173) 165 Coulombe, R., see Senécal, P.-E. (173) 239

De Klerk, J.B.C., see Van der Heiden, C. (173)

Dictus-Vermeulen, C., Ameryckx, J., Gueuning, C., Van Bogaert, E. and Graff, G.L.A.

Alkaline phosphatase isoenzyme pattern in human amniotic fluid is dependent on the level of total activity. Implications in cystic fibrosis diagnosis (173) 173

Douville, P., see Senécal, P.-E. (173) 239

El-Gamal, B.A. and Landon, J. Comparison of separation techniques in radioimmunoassays for 17-hydroxyprogesterone (173) 201

Fuchs, D., see Reibnegger, G. (173) 233 Fukutake, K., see Kanno, T. (173) 89

Geurtzen, A.F.M., see Van der Heiden, C. (173) 81

Goldstein, L., see Menna-Perper, M. (173) 225 Graff, G.L.A., see Dictus-Vermeulen, C. (173) 173

Gueuning, C., see Dictus-Vermeulen, C. (173) 173

Harnasaki, T., Sakano, T., Kobayashi, M., Sakura, N., Usui, T. and Ueda, K. Impaired production of leukotrienes by peripheral blood polymorphonuclear leukocytes from children with chronic renal failure (173) 235

Hausen, A., see Reibnegger, G. (173) 233 Hodges, S.D., see Adolph, K. (173) 147 Hume, R., see Burchell, A. (173) 183 Hural, J.A., see Webber, S. (173) 117

Kaiser, E. and Kramar, R. Clinical biochemistry of peroxisomal disorders (173) 57

Kamath, S.S., see Nayak, S.S. (173) 157
Kanno, T., Sudo, K., Maekawa, M., Nishimura, Y., Ukita, M. and Fukutake, K.
Lactate dehydrogenase M-subunit deficiency: a new type of hereditary exertional myopathy

Kobayashi, M., see Hamasaki, T. (173) 235 Komoda, T., see Koyama, I. (139) 139 König, M.-L., see Lehmann, I. (173) 193

(173) 89

Koyama, I., Arai, Y., Miura, M., Matsuzaki, H., Sakagishi, Y. and Komoda, T. Similarity of the sugar moiety of human alkaline phosphatases between the kidney cortex and duodenum, or medulla and ileum (139) 139

Kramar, R., see Kaiser, E. (173) 57

Kucey, M.T., see Adolph, K. (173) 147 Kundaje, G.N., see Nayak, S.S. (173) 157

Landon, J., see El-Gamal, B.A. (173) 201
Lehmann, C.A., McClure, G.L. and Smolens, I.
Identification of renal calculi by computerized infrared spectroscopy (173) 107

Lehmann, I., Papies, B., Parsi, R.A., Romaniuk, P., Schimke, I., Parsi, E. and König, M.-L. Enzyme pattern and lipid peroxides in endomyocardial biopsies from patients with cardiomyopathy and myocarditis (173) 193

Maekawa, M., see Kanno, T. (173) 89 Manowitz, P., see Menna-Perper, M. (173) 225 Marinah, T.A., see Ch'ng, S.L. (173) 165 Matsuzaki, H., see Koyama, I. (139) 139 McClure, G.L., see Lehmann, C.A. (173) 107

Menna-Perper, M., Nora, R., Goldstein, L. and Manowitz, P.
Agarose isoelectric focusing of arylsulfatase

Agarose isoelectric focusing of arylsulfatase A producing a permanent record on slab gels (173) 225

Miura, M., see Koyama, I. (139) 139

Moss, D.W.

The place of reference materials in clinical enzymology (173) 1

Muller, J., see Siest, G. (173) 19

Nayak, S.S., Kamath, S.S., Kundaje, G.N. and Aroor, A.R.

Diagnostic significance of estimation of serum apolipoprotein A along with α-fetoprotein in alcoholic cirrhosis and hepatocellular carcinoma patients (173) 157

Nishimura, Y., see Kanno, T. (173) 89
Niwa, T., Takeda, N. and Tatematsu, A.
Accumulation of furancarboxylic acids in
uremic serum as inhibitors of drug binding
(173) 127

Nora, R., see Menna-Perper, M. (173) 225

Papies, B., see Lehmann, I. (173) 193 Parsi, E., see Lehmann, I. (173) 193 Parsi, R.A., see Lehmann, I. (173) 193 Pegon, Y., see Accominotti, M. (173) 99 Plebani, M., see Burlina, A. (173) 35

Reibnegger, G., Fuchs, D., Hausen, A., Werner, E.R. and Wachter, H. Pterins as biochemical tests for diagnosis and management of patients with malignant lymphoma and leukemia (173) 233 Romaniuk, P., see Lehmann, I. (173) 193 Roth, M. and Selz, L. Molecular titration as a means of calibrating enzyme reference materials (173) 27

Sakagishi, Y., see Koyama, I. (139) 139
Sakano, T., see Hamasaki, T. (173) 235
Sakura, N., see Hamasaki, T. (173) 235
Schiele, F., see Siest, G. (173) 19
Schimke, I., see Lehmann, I. (173) 193
Schmidt, E.S. and Schmidt, F.W.
Glutamate dehydrogenase: biochemical and clinical aspects of an interesting enzyme (173)

Schmidt, E.S. and Schmidt, F.W.
Standardization by reference methods: a
German viewpoint (173) 9
Schmidt, F.W., see Schmidt, E.S. (173) 43

Schmidt, F.W., see Schmidt, E.S. (173) 43 Schmidt, F.W., see Schmidt, E.S. (173) 9 Selz. L., see Roth, M. (173) 27

Senécal, P.-E., Douville, P., Simard, S. and Coulombe, R. The relationship between serum fructosamine

and albumine (173) 239

Siest, G., Schiele, F., Muller, J. and Wellman, M. y-Glutamyltransferase reference material: an example of international cooperation (173) 19

Simard, S., see Senécal, P.-E. (173) 239 Smolens, I., see Lehmann, C.A. (173) 107 Snyder, F.F., see Adolph, K. (173) 147 Sørensen, S.

Monoclonal IgMs with rheumatoid factor activity and cryoprecipitability identified only by immunofixation electrophoresis after 2mercaptoethanol treatment (173) 217

Sudo, K., see Kanno, T. (173) 89

Takeda, N., see Niwa, T. (173) 127 Tatematsu, A., see Niwa, T. (173) 127

Ueda, K., see Hamasaki, T. (173) 235 Ukita, M., see Kanno, T. (173) 89 Usui, T., see Hamasaki, T. (173) 235

Vallon, J.-J., see Accominotti, M. (173) 99 Van Bogaert, E., see Dictus-Vermeulen, C. (173) 173

Van der Heiden, C., Geurtzen, A.F.M., Brink, W., De Klerk, J.B.C. and Beemer, F.A. Esterase D: evaluation of a potential derived gene marker for hereditary retinoblastoma (173) 81 Wachter, H., see Reibnegger, G. (173) 233
Webber, S., Hural, J.A. and Whiteley, J.M.
The estimation of dihydropteridine reductase in human blood cells (173) 117
Wellman, M., see Siest, G. (173) 19

Werner, E.R., see Reibnegger, G. (173) 233 Whiteley, J.M., see Webber, S. (173) 117

Zaninotto, M., see Burlina, A. (173) 35



Clinica Chimica Acta, Vol. 173

Subject index

Peroxisome: Peroxisomonathy: Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease (Kaiser, E. (173) 57)

Active site

Enzyme; Turnover number; Calibration; Standard (Roth, M. (173) 27)

Adrenoleukodystrophy

Peroxisome; Peroxisomopathy; Zellweger syndrome; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Alcoholic cirrhosis

Apolipoprotein A; a-Fetoprotein; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Cortex enzyme; Medulla enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

Isoenzyme; Human amniotic fluid; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Antibody-coated tube

Congenital adrenal hyperplasia; Separation techniques compared; 17-OHP level (El-Gamal, B.A. (173) 201)

Apolipoprotein A

a-Fetoprotein; Alcoholic cirrhosis; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Arylsulfatase A

Isoelectric focusing; Discontinuous electrophoresis; Metachromatic leukodystrophy (Menna-Perper, M. (173) 225)

Atypical phenylketonuria

Dihydropteridine reductase; Enzyme assay; Western blot (Webber, S. (173) 117)

Enzyme; Active site; Turnover number; Standard (Roth, M. (173) 27)

3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid Uremia; Inhibitor of drug binding: 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid;

3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-4-methyl-5-pentyl-2-furangropionic acid

Uremia; Inhibitor of drug binding: 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-4-methyl-5-propyl-2-furanpropionic

Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

3-Carboxy-5-propyl-2-furanpropionic acid

Uremia; Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid (Niwa, T. (173) 127)

Cardiomyopathy

Enzyme pattern; Lipid peroxide; Endomyocardial biopsy; Myocarditis (Lehmann, I. (173) 193)

Clinical enzymology Enzyme determination; Standardization; Reference method; Reference material (Schmidt, E.S. (173)9)

Reference method: Enzyme reference material; Predominant isoenzyme (Burlina, A. (173) 35)

Congenital adrenal hyperplasia

Separation techniques compared; 17-OHP level; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Cortex enzyme

Alkaline phosphatase; Medulla enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

Cryoglobulin

Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Cystic fibrosis

Alkaline phosphatase; Isoenzyme; Human amniotic fluid (Dictus-Vermeulen, C. (173) 173)

Glucose-6-phosphatase; Type 1 glycogen storage disease; Glycogenosis (Burchell, A. (173) 183)

Dihydropteridine reductase

Enzyme assay; Western blot; Atypical phenylketonuria (Webber, S. (173) 117)

Discontinuous electrophoresis Isoelectric focusing; Metachromatic leukodystrophy; Arylsulfatase A (Menna-Perper, M. (173) 225)

Electrophoresis

Cryoglobulin; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Endomyocardial biopsy

Enzyme pattern; Lipid peroxide; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Enzyme

Active site; Turnover number; Calibration; Standard (Roth, M. (173) 27)

Enzyme activity

y-Glutamyltransferase; Reference material; Standardization (Siest, G. (173) 19)

Dihydropteridine reductase; Western blot; Atypical phenylketonuria (Webber, S. (173) 117)

Enzyme determination

Standardization: Reference method: Reference material: Clinical enzymology (Schmidt, E.S. (173) 9)

Enzyme distribution

Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme pattern; Liver disease (Schmidt, E.S. (173) 43)

Enzyme pattern

Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme distribution; Liver disease (Schmidt, E.S. (173) 43)

Lipid peroxide; Endomyocardial biopsy; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Enzyme properties

Glutamate dehydrogenase (EC 1.4.1.3); Enzyme distribution; Enzyme pattern; Liver disease (Schmidt, E.S. (173) 43)

Enzyme reference material

Reference method; Commutability; Predominant isoenzyme (Burlina, A. (173) 35)

Feterase D

Gene marker; Retinoblastoma; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Exertional myoglobinuria

Lactate dehydrogenase; Lactate dehydrogenase M subunit; M subunit deficiency; Myoglobinuria (Kanno, T. (173) 89)

a-Fetoprotein

Apolipoprotein A; Alcoholic cirrhosis; Hepatocellular carcinoma (Nayak, S.S. (173) 157)

Esterase D; Gene marker; Retinoblastoma; Red cells (Van der Heiden, C. (173) 81)

Gene marker

Esterase D; Retinoblastoma; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Glucose 6 phosphatase

Type 1 glycogen storage disease; Development; Glycogenosis (Burchell, A. (173) 183)

Glutamate dehydrogenase (EC 1.4.1.3)

Enzyme properties; Enzyme distribution; Enzyme pattern; Liver disease (Schmidt, E.S. (173)

y-Glutamyltransferase

Reference material; Standardization; Enzyme activity (Siest, G. (173) 19)

Glycation method, new

In vitro glycation; Serum; Water-resistant medium (Ch'ng, S.L. (173) 165)

Glycogenosis

Glucose-6-phosphatase; Type 1 glycogen storage disease; Development (Burchell, A. (173) 183)

Graphite furnace

Zinc; Micromethod; Serum; Matrix modifier (Accominotti, M. (173) 99)

Hepatocellular carcinoma

Apolipoprotein A; α-Fetoprotein; Alcoholic cirrhosis (Nayak, S.S. (173) 157)

Human amniotic fluid

Alkaline phosphatase; Isoenzyme; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Immunoelectrophoresis

Cryoglobulin; Electrophoresis; Macroglobulinaemia; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Inherited metabolic disease

T lymphocytes; Interleukin-2 (Adolph, K. (173) 147)

Inhibitor of drug binding

Uremia; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-pentyl-2furanpropionic acid; 3-Carboxy-4-methyl-5ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

Interleukin-2

T lymphocytes; Inherited metabolic disease (Adolph, K. (173) 147) In vitro glycation

Serum; Water-resistant medium; Glycation method, new (Ch'ng, S.L. (173) 165)

Isoelectric focusing

Discontinuous electrophoresis; Metachromatic leukodystrophy; Arylsulfatase A (Menna-Perper, M. (173) 225)

Isoenzyme

Alkaline phosphatase; Human amniotic fluid; Cystic fibrosis (Dictus-Vermeulen, C. (173) 173)

Lactate dehydrogenase

Lactate dehydrogenase M subunit; M subunit deficiency; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Lactate dehydrogenase M subunit

Lactate dehydrogenase; M subunit deficiency; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Lectin affinity chromatography (Human kidney) Alkaline phosphatase; Cortex enzyme; Medulla enzyme; Sugar chain heterogeneity (Koyama, I. (139) 139)

Lipid peroxide

Enzyme pattern; Endomyocardial biopsy; Cardiomyopathy; Myocarditis (Lehmann, I. (173) 193)

Liver disease

Glutamate dehydrogenase (EC 1.4.1.3); Enzyme properties; Enzyme distribution; Enzyme pattern (Schmidt, E.S. (173) 43)

Macroglobulinaemia

Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Mercaptoethanol; Rheumatoid factor (Sørensen, S. (173) 217)

Matrix modifier

Zinc; Micromethod; Serum; Graphite furnace (Accominotti, M. (173) 99)

Medulla enzyme

Alkaline phosphatase; Cortex enzyme; Sugar chain heterogeneity; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139) Mercantoethanol

Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Rheumatoid factor (Sørensen, S. (173) 217)

Metachromatic leukodystropky

Isoelectric focusing; Discontinuous electrophoresis; Arylsulfatase A (Menna-Perper, M. (173) 225)

Micromethod

Zinc; Serum; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)

M subunit deficiency

Lactate dehydrogenase; Lactate dehydrogenase M subunit; Myoglobinuria; Exertional myoglobinuria (Kanno, T. (173) 89)

Myocarditis

Enzyme pattern; Lipid peroxide; Endomyocardial biopsy; Cardiomyopathy (Lehmann, I. (173) 193)

Myoglobinuria

Lactate dehydrogenase; Lactate dehydrogenase M subunit; M subunit deficiency; Exertional myoglobinuria (Kanno, T. (173) 89)

17-OHP level

Congenital adrenal hyperplasia; Separation techniques compared; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Peroxisome

Peroxisomopathy; Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Peroxisomopathy

Peroxisome; Zellweger syndrome; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Predominant isoenzyme

Reference method; Enzyme reference material; Commutability (Burlina, A. (173) 35)

Red cells

Esterase D; Gene marker; Retinoblastoma; Fibroblast (Van der Heiden, C. (173) 81)

Reference material

Enzyme determination; Standardization; Reference method; Clinical enzymology (Schmidt, E.S. (173) 9)

γ-Glutamyltransferase; Standardization; Enzyme activity (Siest, G. (173) 19)

Deference method

Enzyme determination; Standardization; Reference material; Clinical enzymology (Schmidt, E.S. (173) 9)

Enzyme reference material; Commutability; Predominant isoenzyme (Burlina, A. (173) 35)

Refsum's disease

Peroxisome; Peroxisomopathy; Zellweger syndrome; Adrenoleukodystrophy; Actalasemia (Kaiser, E. (173) 57)

Retinoblastoma

Esterase D; Gene marker; Red cells; Fibroblast (Van der Heiden, C. (173) 81)

Rheumatoid factor

Cryoglobulin; Electrophoresis; Immunoelectrophoresis; Macroglobulinaemia; Mercaptoethanol (Sørensen, S. (173) 217)

Separation techniques compared

Congenital adrenal hyperplasia; 17-OHP level; Antibody-coated tube (El-Gamal, B.A. (173) 201)

Serun

Zinc; Micromethod; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)

In vitro glycation; Water-resistant medium; Glycation method, new (Ch'ng, S.L. (173) 165)

Ctandard

Enzyme; Active site; Turnover number; Calibration (Roth, M. (173) 27)

Standardization

Enzyme determination; Reference method; Reference material; Clinical enzymology (Schmidt, E.S. (173) 9)

γ-Glutamyltransferase; Reference material; Enzyme activity (Siest, G. (173) 19)

Sugar chain heterogeneity Alkaline phosphatase; Cortex enzyme; Medulla enzyme; Lectin affinity chromatography (Human kidney) (Koyama, I. (139) 139)

T lymphocytes Interleukin-2; Inherited metabolic disease (Adolph, K. (173) 147)

Enzyme; Active site; Calibration; Standard (Roth, M. (173) 27)

Type 1 glycogen storage disease

Glucose-6-phosphatase; Development; Glycogenosis (Burchell, A. (173) 183)

Inhibitor of drug binding; 3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid; 3-Carboxy-4methyl-5-pentyl-2-furanpropionic acid; 3-Carboxy-4-methyl-5-ethyl-2-furanpropionic acid; 3-Carboxy-5-propyl-2-furanpropionic acid (Niwa, T. (173) 127)

In vitro glycation; Serum; Glycation method. new (Ch'ng, S.L. (173) 165)

Dihydropteridine reductase: Enzyme assay: Atypical phenylketonuria (Webber, S. (173) 117)

Zellweger syndrome

Peroxisome; Peroxisomopathy; Adrenoleukodystrophy; Refsum's disease; Actalasemia (Kaiser, E. (173) 57)

Micromethod; Serum; Graphite furnace; Matrix modifier (Accominotti, M. (173) 99)